



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

**Department of Environmental
Conservation**

DIVISION OF WATER
Anchorage

555 Cordova Street
Anchorage, AK 99501
Main: 907.269.6285
Fax: 907.334.2415
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February 22, 2023

Geoff Clark
500 First Street
Cordova, AK 99574

DEC File No. 2215.45.006

Re: Main Bay Hatchery Wastewater Treatment Facility (WWTF) Authorization

Dear Mr. Clark,

The Alaska Department of Environmental Conservation (DEC or Department) has completed its review of the Notice of Intent for the Prince William Sound Aquaculture Corporation (PWSAC) Main Bay Hatchery WWTF and is hereby issuing wastewater discharge authorization AKG572131. This authorization is effective February 22, 2023, and expires December 31, 2027.

Prior to discharge, please review your authorization and general permit AKG572000 to ensure that you understand the requirements contained within them. The permittee is required to meet all requirements as found in the authorization and the general permit. Please refer to Section 5 of this authorization for important information regarding Electronic Reporting Rule requirements. If you have any questions regarding this authorization or general permit, please contact the appropriate DEC staff contact located in Section 6 of this authorization.

Sincerely,

A handwritten signature in cursive script that reads "Earl L. Crapps".

Earl L. Crapps
Section Manager
Domestic and Industrial Utilities
Wastewater Discharge Authorization Program

Enclosures: General Permit and Fact Sheet AKG572000
Authorization AKG572131



Alaska Department of Environmental Conservation

Division of Water

Authorization to Discharge

**AUTHORIZATION TO DISCHARGE UNDER THE ALASKA POLLUTANT ELIMINATION SYSTEM
FOR
SMALL PUBLICLY OWNED TREATMENT WORKS AND OTHER SMALL TREATMENT WORKS
PROVIDING SECONDARY TREATMENT OF DOMESTIC WASTEWATER AND DISCHARGING TO
SURFACE WATER**

FACILITY ASSIGNED AUTHORIZATION NUMBER: AKG572131

GENERAL PERMIT NUMBER: AKG572000

See this [General Permit](#) for all permit requirements.

The following facility is authorized to discharge in accordance with the terms of the State of Alaska General Permit AKG572000 and any site specific requirements listed in this authorization.

The authorization effective date is **February 22, 2023**

The authorization to discharge shall expire at midnight, **December 31, 2027**

The permittee shall reapply for a permit reissuance on or before **July 5, 2027**, 180 days prior to the expiration of the general permit.

SECTION 1 – RESPONSIBLE PARTY

Issued to: Geoff Clark, General Manager for Prince William Sound Aquaculture Corporation

SECTION 2 – FACILITY INFORMATION

Facility Name: PWSAC Main Bay Hatchery Wastewater Treatment Facility

Facility Location: Main Bay, Alaska

Type of Facility: Secondary treatment plant

Outfall Location:

Latitude: 60.5204° N

Longitude: 148.0937° W

Waterbody Discharged to: Main Bay

Type of Disinfection: Ultraviolet light

SECTION 3 – OUTFALL 001A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effluent Compliance Point: At the end of the treatment process prior to discharge to Main Bay

Effluent Parameter	Units ^a	Average Monthly	Average Weekly	Maximum Daily	Minimum Daily	Sample Location	Sample Frequency	Sample Type
Total Discharge Flow	gpd	N/A	N/A	4,800	N/A	Effluent	1/week	Measured or Estimated
pH	s.u.	N/A	N/A	8.5	6.5	Effluent	1/quarter ^b	Grab
Dissolved Oxygen (DO)	mg/L	N/A	N/A	17	6.0	Effluent	1/quarter ^b	Grab
5-Day Biochemical Oxygen Demand (BOD ₅)	mg/L	30	45	60	N/A	Effluent	1/quarter ^b	Grab or Composite ^d
	lbs/day ^c	1.2	1.8	2.4	N/A			Calculated
BOD ₅ Percent (%) Removal ^e	%	85 ^f	N/A	N/A	N/A	Influent and Effluent ^{f, g}	1/quarter ^b	Calculated
Total Suspended Solids (TSS)	mg/L	30	45	60	N/A	Effluent	1/quarter ^b	Grab or Composite ^d
	lbs/day ^c	1.2	1.8	2.4	N/A			Calculated
TSS Percent (%) Removal ^e	%	85 ^f	N/A	N/A	N/A	Influent and Effluent ^{f, g}	1/quarter ^b	Calculated
Fecal Coliform Bacteria (FC)	FC/100 mL	200 ^h	400 ^h	800	N/A	Effluent	1/quarter ^b	Grab
Enterococci	cfu/100 mL	Report ^h	N/A	Report	N/A	Effluent	1/quarter ^{b,i}	Grab

Footnotes:

- a. Units: gpd = gallons per day, mg/L = milligrams per liter, lbs/day = pounds per day, S.U. = standard units, °C= degrees Celsius, FC/100 mL = Fecal Coliform per 100 milliliters, cfu/100 mL = colony forming units per 100 milliliters, µg/L = micrograms per liter.
- b. Once per quarter means sampling once in the time period of three months based on the calendar year: Jan-March, April-June, July-Sept, and Oct-Dec.
- c. lbs/day = concentration (mg/L) x [flow (gpd)/1,000,000] x 8.34 (conversion factor)
- d. See Appendix C for a definition.
- e. Minimum % Removal = [(monthly average influent concentration in mg/L - monthly average effluent concentration in mg/L) / (monthly average influent concentration in mg/L)] x 100. The monthly average percent removal must be calculated using the arithmetic mean of the influent value and the arithmetic mean of the effluent value for that month.
- f. If wastewater is not flowing to the treatment plant at the time of sample collection, influent sample collection is not required, and a concentration of 240 mg/L may be used as the influent concentration for % removal calculations. If wastewater is flowing to the treatment plant, influent samples must be collected and used in % removal calculations. If the resulting % removal is less than 85%, a concentration of 240 mg/L may be used as the influent concentration for % removal calculations. The actual influent result should be reported on the discharge monitoring report and a note should be included to indicate that 240 mg/L was used in the % removal calculation.
- g. Limits apply to effluent. Report average monthly influent concentration. Influent and effluent composite samples shall be collected during the same 24 hour period.
- h. If more than one bacteria sample of fecal coliform (FC) and enterococci is collected within the reporting period, average results must be reported as the geometric mean. When calculating the geometric mean, replace all results of zero, 0, with a one, 1. The geometric mean of “n” quantities is the “nth” root of the quantities. For example, the geometric mean of 100, 200, and 300 is (100 x 200 x 300)^{1/3}= 181.7.
- i. One sample shall be collected quarterly, May through September, on the same day as a fecal coliform sample is collected.

SECTION 4 – MIXING ZONE AUTHORIZATION

Mixing Zone Authorization:

A mixing zone is authorized for fecal coliform and enterococci bacteria.

The mixing zone size is defined as the area of a 6 foot radius circle, centered on the end of pipe and extending from the seafloor to the surface.

SECTION 5 – Electronic Reporting (E-Reporting) Rule for Discharge Monitoring Reports (DMR)

The permittee must submit DMR data electronically through NetDMR per Phase I of the E-Reporting Rule (40 CFR 127) upon the effective date of the Permit. Authorized persons may access permit information by logging into the NetDMR Portal (<https://cdxnodengn.epa.gov/oeca-netdmr-web/action/login>). DMRs submitted in compliance with the E-Reporting Rule are not required to be submitted as described in Appendix A – Standard Conditions unless requested or approved by the Department. Any DMR data required by the Permit that cannot be reported in a NetDMR field (e.g. mixing zone receiving water data, etc...), shall be included as an attachment to the NetDMR submittal. DEC has established an e-Reporting Information website at <http://dec.alaska.gov/water/compliance/electronic-reporting-rule> that contains general information about this new reporting format. Training materials and webinars for NetDMR can be found at https://usepa.servicenowservices.com/oeca_icis?id=netdmr_homepage.

SECTION 6– DEC STAFF CONTACTS

If you have any technical questions regarding this authorization or the requirements of the general permit, please contact Amber Bennett at Amber.Bennett@alaska.gov or (907) 451-2190.

If you have questions regarding NetDMR, please contact Kirk Haug at Kirk.Haug@alaska.gov or (907) 465-5353.

If you have questions regarding compliance with any permit or authorization requirement, please contact Katrina Chambon at Katrina.Chambon@alaska.gov or (907) 269-7550.

A permittee shall orally report any noncompliance event that may endanger health or the environment within 24 hours after the permittee becomes aware of the circumstances and in writing within five days after the permittee becomes aware of the circumstances. Please use the phone numbers and addresses below to report noncompliance events. Additional information regarding twenty-four hour reporting may be found in Appendix A of General Permit AKG572000. The required written follow-up notification can be sent via fax, email, or U.S. Postal Service.

Alaska Department of Environmental Conservation
Attn: Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501

Toll Free Nationwide: 1-877-569-4114
Anchorage or International: 1-907-269-4114
Fax: 1-907-269-4604
email: dec-wqreporting@alaska.gov

SECTION 7– CERTIFICATION/SIGNATURE



February 22, 2023

Signature

Date

Earl L. Crapps

Section Manager Domestic & Industrial Utilities

Printed Name

Title